

LARGE AREA PATTERN EROSION SIMULATOR

ABSTRACT OF THE DISCLOSURE

5 A pseudo-physical model simulates the erosion of
large area three-dimensional patterns on workpieces
during a chemical mechanical polishing process. The model
is based on determining the vertical location of
individual nodes on the polishing pad stack and
corresponding individual nodes on the workpiece. Contact
forces between the pad and the workpiece are determined
by the deflection of the pad stack which is transformed
10 into a contact force by modeling the polishing stack as
abstract mathematical springs.

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